SEQUENCE LISTING

(1) GENERAL INFORMATION:

   (i) APPLICANT: Lebel, Edouard
                 Heifetz, Peter
                 Ward, Eric
                 Uknes, Scott

  (ii) TITLE OF INVENTION: Novel Transgenic Plants

 (iii) NUMBER OF SEQUENCES: 19

  (iv) CORRESPONDENCE ADDRESS:
       (A) ADDRESSEE: Novartis Corporation
       (B) STREET: 3054 Cornwallis Road
       (C) CITY: Research Triangle Park
       (D) STATE: NC
       (E) COUNTRY: USA
       (F) ZIP: 27709

   (v) COMPUTER READABLE FORM:
       (A) MEDIUM TYPE: Floppy disk
       (B) COMPUTER: IBM PC compatible
       (C) OPERATING SYSTEM: PC-DOS/MS-DOS
       (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

  (vi) CURRENT APPLICATION DATA:
       (A) APPLICATION NUMBER: US 09/254,780
       (B) FILING DATE: 10-MARCH-1999
       (C) CLASSIFICATION:

 (vii) PRIOR APPLICATION DATA:
       (A) APPLICATION NUMBER: PCT/US97/16187
       (B) FILING DATE: 12-SEP-1997

 (vii) PRIOR APPLICATION DATA:
       (A) APPLICATION NUMBER: US 60/054,528
       (B) FILING DATE: 04-AUG-1997

 (vii) PRIOR APPLICATION DATA:
       (A) APPLICATION NUMBER: US 60/025,985
       (B) FILING DATE: 12-SEP-1996

(viii) ATTORNEY/AGENT INFORMATION:
       (A) NAME: Meigs, J. Timothy
       (B) REGISTRATION NUMBER: 38,241
       (C) REFERENCE/DOCKET NUMBER: CGC1884/PCT

  (ix) TELECOMMUNICATION INFORMATION:
       (A) TELEPHONE: 919-541-8587
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(2) INFORMATION FOR SEQ ID NO:1:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 13 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Consensus tranlation
initiator sequence for the expression of the E. coli uidA gene
in plants, as suggested by Clontech."

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GTCGACCATG GTC   13

(2) INFORMATION FOR SEQ ID NO:2:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 12 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Consensus translation
initiator sequence for the expression of the E. coli uidA gene
in plants, as suggested by Joshi."

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

TAAACAATGG CT   12

(2) INFORMATION FOR SEQ ID NO:3:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 22 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Molecular adaptor used to
generate the vector pCGNSENX."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

AATTCTAAAG CATGCCGATC GG   22

(2) INFORMATION FOR SEQ ID NO:4:

    (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 21 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
      (A) DESCRIPTION: /desc = "Molecular adaptor used to
generate the vector pCGNSENX."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

AATTCCGATC GGCATGCTTT A   21

(2) INFORMATION FOR SEQ ID NO:5:

    (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 22 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
      (A) DESCRIPTION: /desc = "Molecular adaptor used in
making pCGN1761NENX."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

AATTCTAAAC CATGGCGATC GG   22

(2) INFORMATION FOR SEQ ID NO:6:

    (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 21 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
      (A) DESCRIPTION: /desc = "Molecular adaptor used in
making pCGN1761NENX."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

AATTCCGATC GCCATGGTTT A   21

(2) INFORMATION FOR SEQ ID NO:7:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 15 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: other nucleic acid
            (A) DESCRIPTION: /desc = "Molecular adaptor sequence
    used in making vector pCGN1761/CT."

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

CCAGCTGGAA TTCCG   15

(2) INFORMATION FOR SEQ ID NO:8:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 19 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: other nucleic acid
            (A) DESCRIPTION: /desc = "Molecular adaptor sequence
    used in making vector pCGN1761/CT."

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

CGGAATTCCA GCTGGCATG   19

(2) INFORMATION FOR SEQ ID NO:9:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 30 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: other nucleic acid
            (A) DESCRIPTION: /desc = "Primer E11"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

GCGCCCATGG ACGAAGTCAA CCAGATTCGC   30

(2) INFORMATION FOR SEQ ID NO:10:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 24 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Primer E12"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

CCAGTCGACG TTGGAGGTGA AGAC   24

(2) INFORMATION FOR SEQ ID NO:11:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 31 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Primer E21"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

GCGCGCCATG GCCAATGATT CTCCGTTCTA C   31

(2) INFORMATION FOR SEQ ID NO:12:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 24 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Primer E22"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

GGGACGGTTC TTCAGTCCGG CAGC   24

(2) INFORMATION FOR SEQ ID NO:13:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 29 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Primer E51"

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

CGCCCATGGC CGGTCTCACC GCCACAGTC   29

(2) INFORMATION FOR SEQ ID NO:14:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 25 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Primer E52"

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

GACGACCTCC CACTGGGAGA CGGTG   25

(2) INFORMATION FOR SEQ ID NO:15:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 31 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Primer VAC1"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CATGCCATGG GTGAGGCCTC CGAGCTGTTC C   31

(2) INFORMATION FOR SEQ ID NO:16:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 54 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Primer VAC2"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

TGCGAGCTCT TACATAGTAT CGACTAAAAG TCCGGACTGG AGCTTGCTCC GCAC   54

(2) INFORMATION FOR SEQ ID NO:17:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Sequence present in plasmid
pC8 that includes a StuI site (Example C2)."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

CGAGGCCTCG   10

(2) INFORMATION FOR SEQ ID NO:18:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 28 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Top strand of
oligonucleotide linker used in Example C3."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

CATGGCTTCC TCAGTTCTTT CCTCTGCA   28

(2) INFORMATION FOR SEQ ID NO:19:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 20 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "Bottom strand of
oligonucleotide linker used in Example C3."

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GAGGAAAGAA CTGAGGAAGC   20